

## Claims

1. A current conductor made of braided wire and formed of braided groups  
5 intersecting one another at an angle, characterized in that the braid has a closed cross-sectional profile, and a spacer insert (12) is positioned within the cross section for preserving the shape of the profile and for spacing from one another braid portions that face one another; and the angle of intersection between groups (11, 11a, 11b) intersecting one another is  $90^\circ \pm 30^\circ$ .
- 10 2. The current conductor as defined in claim 1, characterized in that each group contains a single strand.
3. The current conductor as defined in claim 1, characterized in that each  
15 group contains a plurality of parallel, elemental strands.
4. The current conductor as defined in claim 1, characterized in that the strands are insulated from one another.
- 20 5. The current conductor as defined in claim 4, characterized in that the strands carry an enamel insulation.
6. The current conductor as defined in claim 1, characterized in that the spacer  
insert (12) has a circular or elliptical cross section.
- 25 7. The current conductor as defined in claim 1, characterized in that the spacer insert (12) is a tube having an inner cavity (13).
8. The current conductor as defined in claim 7, characterized in that a coolant  
30 liquid may be passed through the inner cavity (13) of the spacer insert (12).

9. The current conductor as defined in claim 1, characterized in that in the inner cavity (13) of the spacer insert (12) an additional conductor is, or additional conductors are positioned, through which only a current is permitted to flow, which has a negligible intensity relative to that passing through the braided wire (10).